

Sanitaire[®] Strip Diffusers

FINE BUBBLE AERATION WITH DESIGN VERSATILITY, SIMPLE MAINTENANCE

Designed for the challenges of wastewater treatment, Sanitaire[®] strip diffusers provide high efficiency over a large airflow range and allow field replacement of the membranes.

Optimized design

The Sanitaire strip diffuser features an airtight double membrane, fitted with an air connection between the layers. Specialized perforations on the upper membrane are designed to meet wastewater aeration purposes, not just clean water testing processes. Diffuser assemblies are all tested to ensure high performance.

The result is high oxygen transfer efficiency and low head loss, for less energy consumption and lower operating expenses.

Operational versatility

The design of the strip diffuser and its grid allow for intermittent aeration and a high turndown ratio, providing flexibility for the treatment process. Meanwhile, the ultra-low diffuser submergence profile provides longer oxygen dwell time.

Replaceable membrane

The same diffuser design that allows outstanding performance also provides easy maintenance. The membrane can be replaced without demounting the diffuser



A replaceable membrane significantly reduces maintenance costs.



SANITAIRE
a xylem brand

Sanitaire® Strip Diffusers

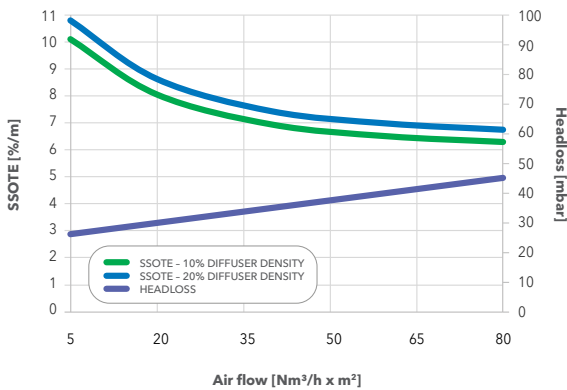
body, saving significant time and cost and making maintenance much more feasible.

With the extended use of the diffuser body, as well as the use of recycled/recyclable materials, operators can not only save on costs but also help reduce their carbon footprint.

Easy installation

Sanitaire strip diffusers offer easy installation with few individual parts, small packing units, and robust designs that offer low risk of damage.

Performance curves



Technical data

Materials				
Membrane	Polyurethane (PU)			
Base profile	PVC regranulate			
Air feed	Polyurethane (PU)			
Dimensions				
Panel length	1500 mm	2000 mm	3000 mm	4000 mm
Overall length	1680 mm	2180 mm	3180 mm	4180 mm
Overall width	257 mm			
Air feed	32 mm			
Height	50 mm			
Active area	0.24 m ²	0.32 m ²	0.48 m ²	0.64 m ²
Air flow				
Air flow rate at standard operating conditions	1.5-19 Nm ³ /h	2-26 Nm ³ /h	3-38 Nm ³ /h	4-52 Nm ³ /h
Max. overload / maintenance air flow rate (10 minutes max)	29 Nm ³ /h	38 Nm ³ /h	58 Nm ³ /h	76 Nm ³ /h
Operating conditions				
Water temperature	< 35°C			
Air temperature	< 60°C			
Max. pressure loss	105 mbar			

Membrane material data

	PU	Technical standard
Colour	Transparent	
Density	1.12 g/cm ³	DIN 53479
Hardness (Shore A)	86 ± 4	DIN 53505
Tear resistance	30 MPA	DIN EN ISO 527-1, -3
Elongation at break	425 %	DIN EN ISO 527-1, -3

Experience you can trust.

With our unique expertise in biological treatment processes and equipment, Xylem can design state-of-the-art aeration systems that provide energy efficiency and process stability. From developing aeration and mixing specifications to defining a control strategy, we can assist you every step of the way.